Subject Index

Aggregate gradation

Optimization Model for Aggregate Blending, Said M. Easa and Emre K. Can, CO Sept. 85 p216-230.

Stochastic Priority Model for Aggregate Blending, Said M. Easa and Emre K. Can, CO Dec. 85 p358-373.

Aggregates

Optimization Model for Aggregate Blending, Said M. Easa and Emre K. Can, CO Sept. 85 p216-230.

Artificial intelligence

Claims Analysis and Computer Reasoning, James E. Diekmann and Timothy A. Kruppenbacher, CO Dec. 84 p391-408.

Expert Systems for Construction Project Monitoring, M. McGartland and C. Hendrickson, CO Sept. 85 p293-307.

Automation

Automation and Robotics for Construction, Boyd C. Paulson, Jr., CO Sept. 85 p190-207.

Bids

Tender Evaluation by Fuzzy Sets, Van Uu Nguyen, CO Sept. 85 p231-243.

Blasting

Vibration Criteria for Historic Buildings, Walter Konon and John R. Schuring, CO Sept. 85 p208-215.

Buildings

Robotics in Building Construction, Abraham Warszawski and Dwight A. Sangrey, CO Sept. 85 p260-280.

Change orders

Construction Claims: Frequency and Severity, James E. Diekmann and Mark C. Nelson, CO March 85 p74-81.

Claims

Claims Analysis and Computer Reasoning, James E. Diekmann and Timothy A. Kruppenbacher, CO Dec. 84 p391-408.

Cold weather construction

Climatic Effects on Construction, Enno Koehn and Gerald Brown, CO June 85 p129-137.

Competitive bidding

Fair and Reasonable Markup (FaRM) Pricing Model, Foad Farid and L. T. Boyer, CO Dec. 85 p374-390.

Computer aided drafting (CAD)

Application of Small Computers in Construction, Task Committee on the Application of Small Computers in Construction, CO Sept. 85 p173-189.

Computer analysis

Claims Analysis and Computer Reasoning, James E. Diekmann and Timothy A. Kruppenbacher, CO Dec. 84 p391-408.

Computer applications

Application of Small Computers in Construction, Task Committee on the Application of Small Computers in Construction, CO Sept. 85 p173-189.

Computer models

SIREN: A Repetitive Construction Simulation Model, Donncha P. Kavanagh, CO Sept. 85 p308-323.

Computerized design

Application of Small Computers in Construction, Task Committee on the Application of Small Computers in Construction, CO Sept. 85 p173-189.

Computerized simulation

A Simulation Model to Forecast Project Completion Time, Hira N. Ahuja and V. Nandakumar, CO Dec. 85 p325-342.

Conduits

Pipe Jacking Method for Long Curve Construction, Yoshihiko Nomura, Hiroshi Hoshina, Hiroshi Shiomi and Takao Umezu, CO June 85 p138-148.

Construction

Climatic Effects on Construction, Enno Koehn and Gerald Brown, CO June 85 p129-137.

Pioneering Construction Engineering Education, Bonnie S. Ledbetter, CO March 85 p41-51.

Vibration Criteria for Historic Buildings, Walter Konon and John R. Schuring, CO Sept. 85 p208-215.

Construction control

Application of Small Computers in Construction, Task Committee on the Application of Small Computers in Construction, CO Sept. 85 p173-189.

Automation and Robotics for Construction, Boyd C. Paulson, Jr., CO Sept. 85 p190-207.

Expert Systems for Construction Project Monitoring, M. McGartland and C. Hendrickson, CO Sept. 85 p293-307.

Total Quality Management for Construction, Jerald L. Rounds and Nai-Yuan Chi, CO June 85 p117-128.

Construction equipment

An Information System for Building Products, G. Bülent Coker, CO Dec. 85 p411-425.

Production Estimating for Draglines, Rita F. Stewart and Cliff J. Schexnayder, CO March 85 p101-104.

Construction industry

Construction Productivity Improvement, David Arditi, CO March 85 p1-14.

Construction management

Application of Small Computers in Construction, Task Committee on the Application of Small Computers in Construction, CO Sept. 85 p173-189.

Construction Claims: Frequency and Severity, James E. Diekmann and Mark C. Nelson, CO March 85 p74-81.

Evaluation of Craftsman Questionnaire, Luh-Maan Chang and John D. Borcherding, CO Dec. 85 p426-437.

General Contractors' Management: How Subs Evaluate It, George S. Birrell, CO Sept. 85 p244-259.

Impacts of Constructability Improvement, James T. O'Connor, CO Dec. 85 p404-410.

On Site Performance Improvement Programs, Alexander Laufer, CO March 85 p82-97.

Pioneering Construction Engineering Education, Bonnie S. Ledbetter, CO March 85 p41-51.

Productivity Analysis of Construction Operations, Amir Tavakoli, CO March 85 p31-39.

Total Quality Management for Construction, Jerald L. Rounds and Nai-Yuan Chi, CO June 85 p117-128.

Valence of and Satisfaction with Job Outcomes, William F. Maloney and James M. McFillen, CO March 85 p53-73.

Construction materials

An Information System for Building Products, G. Bülent Coker, CO Dec. 85 p411-425.

Product Specification Practices and Problems, C. William Ibbs, Jr., CO June 85 p157-172.

Construction methods

Automation and Robotics for Construction, Boyd C. Paulson, Jr., CO Sept. 85 p190-207.

Decisions in Construction Operations, Bilal M. Ayyub and Achintya Haldar, CO Dec. 85 p343-357.

Impacts of Constructability Improvement, James T. O'Connor, CO Dec. 85 p404-410.

Robotics in Building Construction, Abraham Warszawski and Dwight A. Sangrey, CO Sept. 85 p260-280.

SIREN: A Repetitive Construction Simulation Model, Donncha P. Kavanagh, CO Sept. 85 p308-323.

Total Quality Management for Construction, Jerald L. Rounds and Nai-Yuan Chi, CO June 85 p117-128.

Construction planning

A Simulation Model to Forecast Project Completion Time, Hira N. Ahuja and V. Nandakumar, CO Dec. 85 p325-342.

Contract administration

Claims Analysis and Computer Reasoning, James E. Diekmann and Timothy A. Kruppenbacher, CO Dec. 84 p391-408.

Product Specification Practices and Problems, C. William Ibbs, Jr., CO June 85 p157-172.

Contract terms

Product Specification Practices and Problems, C. William Ibbs, Jr., CO June 85 p157-172.

Contractors

General Contractors' Management: How Subs Evaluate It, George S. Birrell, CO Sept. 85 p244-259.

Tender Evaluation by Fuzzy Sets, Van Uu Nguyen, CO Sept. 85 p231-243.

Contracts, claims

Construction Claims: Frequency and Severity, James E. Diekmann and Mark C. Nelson, CO March 85 p74-81.

Product Specification Practices and Problems, C. William Ibbs, Jr., CO June 85 p157-172.

Cost control

Total Quality Management for Construction, Jerald L. Rounds and Nai-Yuan Chi, CO June 85 p117-128.

Cost minimization

Steel Construction Evaluation by MLR-Strategies, Bruce Forde and Siegfried F. Stiemer, CO June 85 p149-156.

Critical path method

Network Scheduling Variations for Repetitive Work, James J. O'Brien, Fred C. Kreitzberg and Wesley F. Mikes, CO June 85 p105-116.

SIREN: A Repetitive Construction Simulation Model, Donncha P. Kavanagh, CO Sept. 85 p308-323.

Data acquisition

Automation and Robotics for Construction, Boyd C. Paulson, Jr., CO Sept. 85 p190-207.

Decision making

Tender Evaluation by Fuzzy Sets, Van Uu Nguyen, CO Sept. 85 p231-243.

Decision theory

Decisions in Construction Operations, Bilal M. Ayyub and Achintya Haldar, CO Dec. 85 p343-357.

Delay time

Evaluation of Craftsman Questionnaire, Luh-Maan Chang and John D. Borcherding, CO Dec. 85 p426-437.

Design

Impacts of Constructability Improvement, James T. O'Connor, CO Dec. 85 p404-410.

Design standards

Formwork Design, Richard C. Ringwald, CO Dec. 85 p391-403.

Draglines

Production Estimating for Draglines, Rita F. Stewart and Cliff J. Schexnayder, CO March 85 p101-104.

Drilling

Raise Boring in Civil and Mining Applications, William R. Nash. CO March 85 p15-30.

Education

Pioneering Construction Engineering Education, Bonnie S. Ledbetter, CO March 85 p41-51.

Estimating

Steel Construction Evaluation by MLR-Strategies, Bruce Forde and Siegfried F. Stiemer, CO June 85 p149-156.

Excavation

Production Estimating for Draglines, Rita F. Stewart and Cliff J. Schexnayder, CO March 85 p101-104.

Expert systems

Expert Systems for Construction Project Monitoring, M. McGartland and C. Hendrickson, CO Sept. 85 p293-307.

Fabrication

Steel Construction Evaluation by MLR-Strategies, Bruce Forde and Siegfried F. Stiemer, CO June 85 p149-156.

Field tests

Pipe Jacking Method for Long Curve Construction, Yoshihiko Nomura, Hiroshi Hoshina, Hiroshi Shiomi and Takao Umezu, CO June 85 p138-148.

Formwork, construction

Formwork Design, Richard C. Ringwald, CO Dec. 85 p391-403.

Friction piles

Optimum Penetration of Friction Piles, Marvin Gates and Amerigo Scarpa, CO Dec. 84 p491-510.

Fuzzy sets

Decisions in Construction Operations, Bilal M. Ayyub and Achintya Haldar, CO Dec. 85 p343-357.

Tender Evaluation by Fuzzy Sets, Van Uu Nguyen, CO Sept. 85 p231-243.

Historic sites

Vibration Criteria for Historic Buildings, Walter Konon and John R. Schuring, CO Sept. 85 p208-215.

Hot weather construction

Climatic Effects on Construction, Enno Koehn and Gerald Brown, CO June 85 p129-137.

Humidity

Climatic Effects on Construction, Enno Koehn and Gerald Brown, CO June 85 p129-137.

Information systems

An Information System for Building Products, G. Bülent Coker, CO Dec. 85 p411-425.

Job satisfaction

Valence of and Satisfaction with Job Outcomes, William F. Maloney and James M. McFillen, CO March 85 p53-73.

Labor relations

Construction Productivity Improvement, David Arditi, CO March 85 p1-14.

On Site Performance Improvement Programs, Alexander Laufer, CO March 85 p82-97.

Legal aspects

Claims Analysis and Computer Reasoning, James E. Diekmann and Timothy A. Kruppenbacher, CO Dec. 84 p391-408.

Loads

Formwork Design, Richard C. Ringwald, CO Dec. 85 p391-403.

Mixing

Stochastic Priority Model for Aggregate Blending, Said M. Easa and Emre K. Can, CO Dec. 85 p358-373.

Monitoring

Expert Systems for Construction Project Monitoring, M. McGartland and C. Hendrickson, CO Sept. 85 p293-307.

Motivation

On Site Performance Improvement Programs, Alexander Laufer, CO March 85 p82-97.

Valence of and Satisfaction with Job Outcomes, William F. Maloney and James M. McFillen, CO March 85 p53-73.

Optimization models

Optimization Model for Aggregate Blending, Said M. Easa and Emre K. Can, CO Sept. 85 p216-230.

Stochastic Priority Model for Aggregate Blending, Said M. Easa and Emre K. Can, CO Dec. 85 p358-373.

Owners

Construction Claims: Frequency and Severity, James E. Diekmann and Mark C. Nelson, CO March 85 p74-81.

Pavement overlays

Portland Cement Concrete Thin-Bonded Overlay, Richard J. Wibby, CO Sept. 85 p281-292.

Performance

On Site Performance Improvement Programs, Alexander Laufer, CO March 85 p82-97.

Performance evaluation

General Contractors' Management: How Subs Evaluate It, George S. Birrell, CO Sept. 85 p244-259.

Personnel

Valence of and Satisfaction with Job Outcomes, William F. Maloney and James M. McFillen, CO March 85 p53-73.

Pile bearing capacities

Optimum Penetration of Friction Piles, Marvin

Gates and Amerigo Scarpa, CO Dec. 84 p491-510.

Pile driving

Optimum Penetration of Friction Piles, Marvin Gates and Amerigo Scarpa, CO Dec. 84 p491-510.

Vibration Criteria for Historic Buildings, Walter Konon and John R. Schuring, CO Sept. 85 p208-215.

Pipe jacking

Pipe Jacking Method for Long Curve Construction, Yoshihiko Nomura, Hiroshi Hoshina, Hiroshi Shiomi and Takao Umezu, CO June 85 p138-148.

Pneumatic systems

Raise Boring in Civil and Mining Applications, William R. Nash, CO March 85 p15-30.

Portland cements

Portland Cement Concrete Thin-Bonded Overlay, Richard J. Wibby, CO Sept. 85 p281-292.

Pricing

Fair and Reasonable Markup (FaRM) Pricing Model, Foad Farid and L. T. Boyer, CO Dec. 85 p374-390.

Production planning

Production Estimating for Draglines, Rita F. Stewart and Cliff J. Schexnayder, CO March 85 p101-104.

Productivity

Climatic Effects on Construction, Enno Koehn and Gerald Brown, CO June 85 p129-137.

Construction Productivity Improvement, David Arditi, CO March 85 p1-14.

Evaluation of Craftsman Questionnaire, Luh-Maan Chang and John D. Borcherding, CO Dec. 85 p426-437.

Impacts of Constructability Improvement, James T. O'Connor, CO Dec. 85 p404-410.

On Site Performance Improvement Programs, Alexander Laufer, CO March 85 p82-97.

Productivity Analysis of Construction Operations, Amir Tavakoli, CO March 85 p31-39.

Total Quality Management for Construction, Jerald L. Rounds and Nai-Yuan Chi, CO June 85 p117-128.

Project control

Expert Systems for Construction Project Monitoring, M. McGartland and C. Hendrickson, CO Sept. 85 p293-307.

Steel Construction Evaluation by MLR-Strategies, Bruce Forde and Siegfried F. Stiemer, CO June 85 p149-156.

Project management

Construction Productivity Improvement, David Arditi, CO March 85 p1-14.

Project planning

Construction Productivity Improvement, David Arditi, CO March 85 p1-14.

Quadratic programming

Optimization Model for Aggregate Blending, Said M. Easa and Emre K. Can, CO Sept. 85 p216-230.

Quality control

Total Quality Management for Construction, Jerald L. Rounds and Nai-Yuan Chi, CO June 85 p117-128.

Raise boring machine

Raise Boring in Civil and Mining Applications, William R. Nash, CO March 85 p15-30.

Robotics

Automation and Robotics for Construction, Boyd C. Paulson, Jr., CO Sept. 85 p190-207.

Robotics in Building Construction, Abraham Warszawski and Dwight A. Sangrey, CO Sept. 85 p260-280.

Safety

Decisions in Construction Operations, Bilal M. Ayyub and Achintya Haldar, CO Dec. 85 p343-357.

Scheduling

Construction Productivity Improvement, David Arditi, CO March 85 p1-14.

Network Scheduling Variations for Repetitive Work, James J. O'Brien, Fred C. Kreitzberg and Wesley F. Mikes, CO June 85 p105-116.

A Simulation Model to Forecast Project Completion Time, Hira N. Ahuja and V. Nandakumar, CO Dec. 85 p325-342.

Steel Construction Evaluation by MLR-Strategies, Bruce Forde and Siegfried F. Stiemer, CO June 85 p149-156.

Shafts, excavations

Raise Boring in Civil and Mining Applications, William R. Nash, CO March 85 p15-30.

Simulation models

Productivity Analysis of Construction Operations, Amir Tavakoli, CO March 85 p31-39.

A Simulation Model to Forecast Project Completion Time, Hira N. Ahuja and V. Nandakumar, CO Dec. 85 p325-342.

SIREN: A Repetitive Construction Simulation Model, Donncha P. Kavanagh, CO Sept. 85 p308-323.

Specifications

Product Specification Practices and Problems, C. William Ibbs, Jr., CO June 85 p157-172.

Steel construction

Steel Construction Evaluation by MLR-Strategies, Bruce Forde and Siegfried F. Stiemer, CO June 85 p149-156.

Stochastic models

Stochastic Priority Model for Aggregate Blending, Said M. Easa and Emre K. Can, CO Dec. 85 p358-373.

Temperature

Climatic Effects on Construction, Enno Koehn and Gerald Brown, CO June 85 p129-137.

Tunnel construction

Pipe Jacking Method for Long Curve Construction, Yoshihiko Nomura, Hiroshi Hoshina, Hiroshi Shiomi and Takao Umezu, CO June 85 p138-148.

Tunneling

Pipe Jacking Method for Long Curve Construction, Yoshihiko Nomura, Hiroshi Hoshina, Hiroshi Shiomi and Takao Umezu, CO June 85 p138-148.

Value engineering

Impacts of Constructability Improvement, James T. O'Connor, CO Dec. 85 p404-410.

Vertical production method

Network Scheduling Variations for Repetitive Work, James J. O'Brien, Fred C. Kreitzberg and Wesley F. Mikes, CO June 85 p105-116.

Vibration effects

Vibration Criteria for Historic Buildings, Walter Konon and John R. Schuring, CO Sept. 85 p208-215.

Author Index

Ahuja, Hira N.
A Simulation Model to Forecast Project Completion Time, with V. Nandakumar, CO Dec. 85, p325-342

Arditi, David
Construction Productivity Improvement, CO March 85, p1-14

Ayyub, Bilal M.
Decisions in Construction Operations, with Achintya Haldar, CO Dec. 85, p343-357

Birrell, George S.
General Contractors' Management: How Subs Evaluate It, CO Sept. 85, p244-259

Borcherding, John D.
see Chang, Luh-Maan, CO Dec. 85, p426-437

Boyer, L. T.
see Farid, Foad, CO Dec. 85, p374-390

Brown, Gerald
see Koehn, Enno, CO June 85, p129-137

Can, Emre K.
see Easa, Said M., CO Sept. 85, p216-230
see Easa, Said M., CO Dec. 85, p358-373

Chang, Luh-Maan
Evaluation of Craftsman Questionnaire, with John D. Borcherding, CO Dec. 85, p426-437

Chi, Nai-Yuan
see Rounds, Jerald L., CO June 85, p117-128

Coker, G. Bülent
An Information System for Building Products, CO Dec. 85, p411-425

Diekmann, James E.
Claims Analysis and Computer Reasoning, with Timothy A. Kruppenbacher, CO Dec. 84, p391-408
disc: William G. Salomone, CO Dec. 85, p441-443
clo: CO Dec. 85, p443-444
Construction Claims: Frequency and Severity, with Mark C. Nelson, CO March 85, p74-81

Easa, Said M.
Optimization Model for Aggregate Blending, with Emre K. Can, CO Sept. 85, p216-230
Stochastic Priority Model for Aggregate Blending, with Emre K. Can, CO Dec. 85, p358-373

Farid, Foad
Fair and Reasonable Markup (FaRM) Pricing Model, with L. T. Boyer, CO Dec. 85, p374-390

Forde, Bruce
Steel Construction Evaluation by MLR-Strategies, with Siegfried F. Stiemer, CO June 85, p149-156

Gates, Marvin
Optimum Penetration of Friction Piles, with Amerigo Scarpa, CO Dec. 84, p491-510
err: CO Dec. 85, p445

Haldar, Achintya
see Ayyub, Bilal M., CO Dec. 85, p343-357

Hendrickson, C.
see McGartland, M., CO Sept. 85, p293-307

Hoshina, Hiroshi
see Nomura, Yoshihiko, CO June 85, p138-148

Ibbs, C. William, Jr.
Product Specification Practices and Problems, CO June 85, p157-172

Kavanagh, Donncha P.
SIREN: A Repetitive Construction Simulation Model, CO Sept. 85, p308-323

Koehn, Enno
Climatic Effects on Construction, with Gerald Brown, CO June 85, p129-137

Konon, Walter
Vibration Criteria for Historic Buildings, with John R. Schuring, CO Sept. 85, p208-215

Kreitzberg, Fred C.
see O'Brien, James J., CO June 85, p105-116

Kruppenbacher, Timothy A.
see Diekmann, James E., CO Dec. 84, p391-408

Laufer, Alexander
On Site Performance Improvement Programs, CO March 85, p82-97

Ledbetter, Bonnie S.
Pioneering Construction Engineering Education, CO March 85, p41-51

McFillen, James M.
see Maloney, William F., CO March 85, p53-73

McGartland, M.
Expert Systems for Construction Project Monitoring, with C. Hendrickson, CO Sept. 85, p293-307

Maloney, William F.
Valence of and Satisfaction with Job Outcomes, with James M. McFillen, CO March 85, p53-73

Mikes, Wesley F.
see O'Brien, James J., CO June 85, p105-116

Nandakumar, V.
see Ahuja, Hira N., CO Dec. 85, p325-342

Nash, William R.
Raise Boring in Civil and Mining Applications, CO March 85, p15-30

Nelson, Mark C.
see Diekmann, James E., CO March 85, p74-81

Nguyen, Van Uu
Tender Evaluation by Fuzzy Sets, CO Sept. 85, p231-243

Nomura, Yoshihiko
Pipe Jacking Method for Long Curve Construction, with Hiroshi Hoshina, Hiroshi Shiomi and Takao Umezu, CO June 85, p138-148

O'Brien, James J.
Network Scheduling Variations for Repetitive Work, with Fred C. Kreitzberg and Wesley F. Mikes, CO June 85, p105-116

O'Connor, James T.
Impacts of Constructability Improvement, CO Dec. 85, p404-410

Paulson, Boyd C., Jr.
Automation and Robotics for Construction, CO Sept. 85, p190-207

Ringwald, Richard C.
Formwork Design, CO Dec. 85, p391-403

Rounds, Jerald L.
Total Quality Management for Construction, with Nai-Yuan Chi, CO June 85, p117-128

Salomone, William G.
disc. (of Claims Analysis and Computer Reasoning, by James E. Diekmann and Timothy A. Kruppenbacher, CO Dec. 84, p391-408), CO Dec. 85, p441-443

Sangrey, Dwight A.
see Warszawski, Abraham, CO Sept. 85, p260-280

Scarpa, Amerigo
see Gates, Marvin, CO Dec. 84, p491-510

Schexnayder, Cliff J.
see Stewart, Rita F., CO March 85, p101-104

Schuring, John R.
see Konon, Walter, CO Sept. 85, p208-215

Shiomi, Hiroshi
see Nomura, Yoshihiko, CO June 85, p138-148

Stewart, Rita F.
Production Estimating for Draglines, with Cliff J. Schexnayder, CO March 85, p101-104

Stiemer, Siegfried F.
see Forde, Bruce, CO June 85, p149-156

Task Committee on the Application of Small Computers in Construction
Application of Small Computers in Construction, CO Sept. 85, p173-189

Tavakoli, Amir
Productivity Analysis of Construction Operations, CO March 85, p31-39

Umezu, Takao
see Nomura, Yoshihiko, CO June 85, p138-148

Warszawski, Abraham
Robotics in Building Construction, with Dwight A. Sangrey, CO Sept. 85, p260-280

Wibby, Richard J.
Portland Cement Concrete Thin-Bonded Overlay, CO Sept. 85, p281-292